# Remote Sensing Applications Division (RSAD)

## CDR Program Office

Weekly Report for Aug 8, 2014
Ed Kearns, Chief

PREDECISIONAL DRAFT INFORMATION

| | | | Assessment | | Deliver Drafts | | | | | | Review and Provide Feedback | | | | | | Deliver Final Versions | | | | | | Misc | | Archive | | | Release | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Status | CDR | PI TM | Assemble IPT | Perform Assess-ment | Deliver source code sample and README draft | Deliver Flow Diagram Draft | Deliver C-ATBD Draft | Deliver Maturity Matrix Draft | Deliver Sample netCDF dataset | Deliver SA Draft | Provide feedback on source code and README | Provide feedback on Flow Diagram Draft | Provide feedback on C-ATBD Draft | Provide feedback on Maturity Matrix Draft | Provide feedback on Sample netCDF dataset | Provide feedback on SA Draft | Deliver final source code and README | Deliver final Flow Diagram | Deliver final C-ATBD | Deliver final Maturity Matrix | Deliver final netCDF dataset | Deliver final SA | Create Collection Level Metatdata | Conduct Security Review | Archive Code Package | Archive Docs | Archive Data | Make data publicly available | Put data, docs, and code on dev web page | Conduct ORR |
| 1 | AMSU-A FCDR (CH7 GPSRO) | Ho Shi | x | x | x | 22-Jul | 28-Jun | 22-Jul | x | 4-Sep | x | 26-Jul | 11-Jul | 26-Jul | x | 9-Sep | 23-Aug | 5-Aug | 27-Aug | 5-Aug | 13-Sep | 10-Sep | 11-Sep | 27-Aug | 17-Sep | 17-Sep | 17-Sep | 20-Sep | 24-Sep | 7-Nov |
| 2 | Vegetation (Sfc Ref) | Vermote Matthews | x | 17-Jan | 22-May | 2-Jul | 26-Jul | 7-May | 22-May | 6-Nov | 29-May | 9-Jul | 22-Aug | 6-Nov | 30-Jun | 8-Nov | 1-Apr | 1-Nov | 19-Nov | 5-Mar | 24-Apr | 12-Nov | 14-May | 6-Nov | 15-May | 6-May | 7-May | 15-May | 16-May | 21-May |
| 3 | Vegetation (NDVI) | Vermote Matthews | x | 17-Jan | 22-May | 2-Jul | 26-Jul | 7-May | 22-May | 6-Nov | 29-May | 9-Jul | 22-Aug | 6-Nov | 30-Jun | 8-Nov | 1-Apr | 1-Nov | 19-Nov | 5-Mar | 24-Apr | 12-Nov | 14-May | 6-Nov | 15-May | 6-May | 7-May | 15-May | 16-May | 21-May |
| 4 | MSU TCDR | Zou Semunegus | x | IP 23-Dec | 25-Feb | 25-Feb | 25-Feb | 25-Feb | 25-Feb | 19-Mar | 4-Mar | 4-Mar | 4-Mar | 4-Mar | 4-Mar | 26-Mar | 28-Mar | 31-Mar | 31-Mar | 31-Mar | 28-Mar | 2-Apr | 11-Jun | 2-May | 8-May | 25-Apr | 1-Apr | 11-Jun | 11-Jun | 12-Jun |
| 5 | Could Properties | Heidinger Knapp | x | x | x | x | 17-Mar | 11-Jan | x | 16-Jan | x | x | 13-May | 14-Jan | x | 30-Jan | 21-Apr | x | 15-May | 16-Jan | 27-Jun | 5-Mar | 2-Jul | x | 11-Jun | 11-Jun | 27-Jun | 2-Jul | 2-Jul | 3-Jul |
| 6 | OLR Daily | HT Lee Shreck | x | x | 1-Jun | 6-Jan | 1-Jun | 11-Jan | 30-Jan | 10-Jun | 2-Jun | 10-Jan | 4-Jun | 14-Jan | 6-Jun | 10-Jun | 3-Jun | 15-Jan | 5-Jun | 15-Jan | 16-Jun | 11-Jun | 24-Jun | 12-Jun | 18-Jun | 12-Jun | 23-Jun | 24-Jun | 2-Jul | 3-Jul |
| 7 | SST - WHOI | Clayson Peng | x | 21-Feb | 12-Dec | 3-Apr | 20-May | 19-Feb | 25-Nov | | 16-Dec | | 6-Jun | | 13-Dec | | | | | | | | | | | | | | | FY14 |
| 8 | Ocean Surface Properties | Clayson Peng | x | 21-Feb | 12-Dec | 3-Apr | 20-May | 19-Feb | 25-Nov | | 16-Dec | | 6-Jun | | 13-Dec | | | | | | | | | | | | | | | FY14 |
| 9 | Ocean Surface Heat Fluxes | Clayson Peng | x | 21-Feb | 12-Dec | 3-Apr | 20-May | 19-Feb | | | 16-Dec | | 6-Jun | | | | | | | | | | | | | | | | | FY14 |
| 10 | Stratospheric (Ozone) | Rosenlof Young | x | x | 20-May | | 20-Mar | | 30-Oct 4-Apr | | 12-Jun | | 27-Mar | | 6-Jan 12-Jun 5-Aug | | | | | | | | | | | | | | | FY14 |
| 11 | Cryosphere (APP FCDR) | Key Young | 13-Jun | IP 20-Dec | 3-Jun | | 20-Mar | 12-Mar | 12 Mar 27 Jun | | | | 25-Apr | 20-Mar | 25-Apr | | | | | | | | | | | | | | | FY15 |
| 12 | Cryosphere (APP-x TCDR) | Key Young | 13-Jun | IP 20-Dec | 3-Jun | | 20-Mar | 12-Mar | 12 Mar 27 Jun | | | | 25-Apr | 20-Mar | 25-Apr | | | | | | | | | | | | | | | FY15 |
| 13 | AVHRR FCDR (5 CHs) | Minnis Young | x | 22-Nov | | 14-Feb | 31-Dec 28-Mar | 7-Feb | 14-Feb | 20-Dec 31-Jul | | 21-Feb | 13-Feb 2-Jun | 14-Feb | 18-Feb | 19-Jun | | | | | 1TB /day | | | | | | 60 TB CLASS | | | FY15 |
| 14 | AVHRR Cloud Properties - NASA | Minnis Young | x | 22-Nov | | 14-Feb | 31-Dec 28-Mar | 7-Feb | 14-Feb | 20-Dec 31-Jul | | 21-Feb | 13-Feb 2-Jun | 14-Feb | 18-Feb | 19-Jun | | | | | 1TB /day | | | | | | 60 TB CLASS | | | FY15 |
| 15 | Vegetation (LAI/FAPAR) | Vermote Matthews | x | 17-Jan | 24-Jun | 2-Jul | 26-Jul | 7-May | 16-Jul | 6-Nov | 29-May | 9-Jul | 22-Aug | | | 8-Nov | | 1-Nov | | | | | | | | | | | | FY15 |
| 16 | Cloud Top Pressure | Menzel Young | x | 31-Jan | 1-Oct | 5-Aug | 15-May | 5-Aug | 21-Oct 11-Jul 25-Jul | | 29-Oct | 29-Oct | 29-Oct 10-Jan | | 4-Nov 24-Jul | | | | | | NCDC creating | | | | | | | | | FY15 |
| 17 | Total Precipitable Water | Menzel Young | x | 31-Jan | 1-Oct | 5-Aug | 15-May | 5-Aug | 21-Oct 11-Jul 25-Jul | | 29-Oct | 29-Oct | 29-Oct 10-Jan | | 4-Nov 24-Jul | | | | | | NCDC creating | | | | | | | | | FY15 |
| 18 | Total Solar Irradiance | Pilewskie Inamdar | x | 6-Mar | 22-Jan | 26-Mar | | 26-Mar | | Approved to Archive | 9-May | | | | | | | | | | | | | | | | | | | FY15 |
| 19 | Solar Spectral Irradiance | Lean Inamdar | x | 6-Mar | 22-Jan | 26-Mar | | 26-Mar | | Approved to Archive | 9-May | | | | | | | | | | | | | | | | | | | FY15 |
| 20 | ISCCP | Rossow Knapp | x | x | See | Quad | Chart | | | | | | | | | | | | | | | | | | | | | | | FY15 |

| Status | CDR | PI TM | Assessment: Assemble IPT | Assessment: Perform Assess-ment | Deliver Drafts: Deliver source code sample and README draft | Deliver Drafts: Deliver Flow Diagram Draft | Deliver Drafts: Deliver C-ATBD Draft | Deliver Drafts: Deliver Maturity Matrix Draft | Deliver Drafts: Deliver Sample netCDF dataset | Deliver Drafts: Deliver SA Draft | Review and Provide Feedback: Provide feedback on source code and README | Review and Provide Feedback: Provide feedback on Flow Diagram Draft | Review and Provide Feedback: Provide feedback on C-ATBD Draft | Review and Provide Feedback: Provide feedback on Maturity Matrix Draft | Review and Provide Feedback: Provide feedback on Sample netCDF dataset | Review and Provide Feedback: Provide feedback on SA Draft | Deliver Final Versions: Deliver final source code and README | Deliver Final Versions: Deliver final Flow Diagram | Deliver Final Versions: Deliver final C-ATBD | Deliver Final Versions: Deliver final Maturity Matrix | Deliver Final Versions: Deliver final netCDF dataset | Deliver Final Versions: Deliver final SA | Misc: Create Collection Level Metatdata | Misc: Conduct Security Review | Archive: Archive Code Package | Archive: Archive Docs | Archive: Archive Data | Release: Make data publicly available | Release: Put data, docs, and code on dev web page | Conduct ORR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | AMSU-A FCDR (CH7 GPSRO) | Ho Shi | **1) Complete** | | | | | | | | | | | | | | | | | | | | | | | | | | | 7-Nov |
| 2 | Vegetation (Sfc Ref) | Vermote Matthews | **2) Complete** | | | | | | | | | | | | | | | | | | | | | | | | | | | 21-May |
| 3 | Vegetation (NDVI) | Vermote Matthews | **3) Complete** | | | | | | | | | | | | | | | | | | | | | | | | | | | 21-May |
| 4 | MSU TCDR | Zou Semunegus | **4) Complete** | | | | | | | | | | | | | | | | | | | | | | | | | | | 12-Jun |
| 5 | Could Properties | Heidinger Knapp | **5) Complete** | | | | | | | | | | | | | | | | | | | | | | | | | | | 3-Jul |
| 6 | OLR Daily | HT Lee Shreck | **6) Complete** | | | | | | | | | | | | | | | | | | | | | | | | | | | 3-Jul |
| 7 | SST - WHOI | Clayson Peng | 7) Received sample data for 2001, data looks good | | | | | | | | | | | | | | | | | | | | | | | | | | | FY14 |
| 8 | Ocean Surface Properties | Clayson Peng | 8) **IPT set up (8/8)** | | | | | | | | | | | | | | | | | | | | | | | | | | | FY14 |
| 9 | Ocean Surface Heat Fluxes | Clayson Peng | 9) Still waiting on sample data | | | | | | | | | | | | | | | | | | | | | | | | | | | FY14 |
| 10 | Stratospheric (Ozone) | Rosenlof Young | 10) **Decided on final data structure, two files: one by pressure and one by altitude, was too difficult to combine them** | | | | | | | | | | | | | | | | | | | | | | | | | | | FY14 |
| 11 | Cryosphere (APP FCDR) | Key Young | 11) Reviewing TCDR C-ATBD | | | | | | | | | | | | | | | | | | | | | | | | | | | FY15 |
| 12 | Cryosphere (APP-x TCDR) | Key Young | 12) Feedback sent on metadata | | | | | | | | | | | | | | | | | | | | | | | | | | | FY15 |
| 13 | AVHRR FCDR (5 CHs) | Minnis Young | 13) **SA draft complete, review/coordination in progress** | | | | | | | | | | | | | | | | | | | | | | | | | | | FY15 |
| 14 | AVHRR Cloud Properties - NASA | Minnis Young | 14) PI will push up to 1TB/day to ftp4 using sftp; PI found problem with IR calibration (~2 weeks to fix) | | | | | | | | | | | | | | | | | | | | | | | | | | | FY15 |
| 15 | Vegetation (LAI/FAPAR) | Vermote Matthews | 15) PI needs OLE code from U of Miami to create their daily operational code; received sample data, it looks/maps fine. | | | | | | | | | | | | | | | | | | | | | | | | | | | FY15 |
| 16 | Cloud Top Pressure | Menzel Young | 16) ATRAC request for L1B PATMOS input data (12.5 TB), final dataset (3 TB) | | | | | | | | | | | | | | | | | | | | | | | | | | | FY15 |
| 17 | Total Precipitable Water | Menzel Young | 17) Received sample data, it's looking good | | | | | | | | | | | | | | | | | | | | | | | | | | | FY15 |
| 18 | Total Solar Irradiance | Pilewskie Inamdar | 18) PI working on C-ATBD | | | | | | | | | | | | | | | | | | | | | | | | | | | FY15 |
| 19 | Solar Spectral Irradiance | Lean Inamdar | 19) Received sample data, needs a lot of work; ATRAC request complete | | | | | | | | | | | | | | | | | | | | | | | | | | | FY15 |
| 20 | ISCCP | Rossow Knapp | 20) Anand/Alisa/Bill found coding error; they were able to step through one month of processing | | | | | | | | | | | | | | | | | | | | | | | | | | | FY15 |

| | CDR | PI TM | Assessment | | Deliver Drafts | | | | | | Review and Provide Feedback | | | | | | Deliver Final Versions | | | | | | Misc | | Archive | | | Release | | |
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| | | | Assemble IPT | Perform Assess-ment | Deliver source code sample and README draft | Deliver Flow Diagram Draft | Deliver C-ATBD Draft | Deliver Maturity Matrix Draft | Deliver Sample netCDF dataset | Deliver SA Draft | Provide feedback on source code and README | Provide feedback on Flow Diagram Draft | Provide feedback on C-ATBD Draft | Provide feedback on Maturity Matrix Draft | Provide feedback on Sample netCDF dataset | Provide feedback on SA Draft | Deliver final source code and README | Deliver final Flow Diagram | Deliver final C-ATBD | Deliver final Maturity Matrix | Deliver final netCDF dataset | Deliver final SA | Create Collection Level Metatdata | Conduct Security Review | Archive Code Package | Archive Docs | Archive Data | Make data publicly available | Put data, docs, and code on dev web page | Conduct ORR |
| 21 | CMORPH | Xie Prat | x | | | | | | | | | | | | | | | | | | | | | | | | | | | FY16 |
| 22 | NRT Sea Ice Concentration | Fetterer Peng | x | PI says NO deliverables | | | | | | | | | | | | | | | | | | | | | | | | | | FY16 |
| 23 | Hydorogical Bundle | Ferraro Nelson | | | | | | | | | | | | | | | | | | | | | | | | | | | | FY16 |
| 24 | AMSU-A FCDR | Ferraro Nelson | | | | | | | | | | | | | | | | | | | | | | | | | | | | FY16 |
| 25 | AMSU-B FCDR | Ferraro Nelson | | | | | | | | | | | | | | | | | | | | | | | | | | | | FY16 |
| 26 | Sea Level | Callahan Zhang | | | | | | | | | | | | | | | | | | | | | | | | | | | | FY16 |
| 27 | Mean Layer Temperature - NOAA | Zou Semunegus | | | | | | | | | | | | | | | | | | | | | | | | | | | | FY16 |
| 28 | Tropospheric Height | Ho Shi | | | | | | | | | | | | | | | | | | | | | | | | | | | | FY16 |
| 29 | Surface Albedo | Matthews | | | | | | | | | | | | | | | | | | | | | | | | | | | | FY17 |
| 30 | UTH Related FCDR | Lou | | | | | | | | | | | | | | | | | | | | | | | | | | | | FY17 |
| 31 | AVHRR + HIRS Cloud TCDR | Heidinger Knapp | | | | | | | | | | | | | | | | | | | | | | | | | | | | FY17 |
| 32 | ISCCP Enery Budget | Zhang | | | | | | | | | | | | | | | | | | | | | | | | | | | | FY17 |
| 33 | GPCP Monthly | Adler | | | | | | | | | | | | | | | | | | | | | | | | | | | | FY17 |
| 34 | GPCP Daily | Adler | | | | | | | | | | | | | | | | | | | | | | | | | | | | FY17 |
| 35 | GPCP Pentad | Adler | | | | | | | | | | | | | | | | | | | | | | | | | | | | FY17 |
| 36 | Ozone | Long | | | | | | | | | | | | | | | | | | | | | | | | | | | | FY17 |

# CDRP Open Change Requests

| Name of CDR | C-ATBD | Data Flow Diagram | Maturity Matrix | VDD | Source Code | NetCDF sample | Dataset | Request to Archive | Approved for Archive | SA | DSRR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Geostationary IR Channel Brightness Temperature - GridSat B1 | Returned to PI with edits | Needed, TBD | Needed, TBD | N/A | √ | √ | √ | √ | √ | √ | Aug-13 |
| Sea Surface Temperature - Pathfinder | Returned to PI with edits | No change | No change | √ | √ | √ | Having QA issues, will not be delivered until end of CY 2014 | √ | √ | Needed TBD | Needed, TBD |
| Mean Layer Temperature - UAH | 31-Jul | 31-Jul | N/A | Needed, TBD | 10-Aug | 10-Aug | Needed, TBD | Needed, TBD | Needed, TBD | Needed, TBD | Needed, TBD |

# GST FY14 Subcontracts

| PI | CDRs | Start Date | End Date | WA Complete | Sent to Institution for Review | Sub-contract in place |
|---|---|---|---|---|---|---|
| Christy | Mean Layer Temperature - UAH | 15-Sep-14 | 31-Mar-15 | √ | √ | √ |
| Ho | - Mean Layer Temperature - UCAR (Lower Stratosphere)<br>- Mean Layer Temperature - UCAR (Troposphere and Stratosphere)<br>- Tropopause Height Climatology | 17-Sep-14 | 31-Mar-15 | √ | √ | |
| Robinson | Snow Cover Extent (Northern Hemisphere) | 11-Sep-14 | 31-Mar-15 | √ | √ | √ |
| Sorooshian | Precipitation - PERSIANN-CDR | 1-Aug-14 | 31-Mar-15 | √ | √ | |
| Zhang | ISCCP Radiation Budget | 1-Aug-14 | 31-Mar-15 | √ | √ | √ |
| Wentz | SSMI(S) Brightness Temperature - RSS | 14-Sep-14 | 31-Mar-15 | √ | √ | √ |
| Mears | Mean Layer Temperature - RSS | 14-Sep-14 | 31-Mar-15 | √ | √ | √ |

# CDR Program Office

## OISST Research to Operations Project

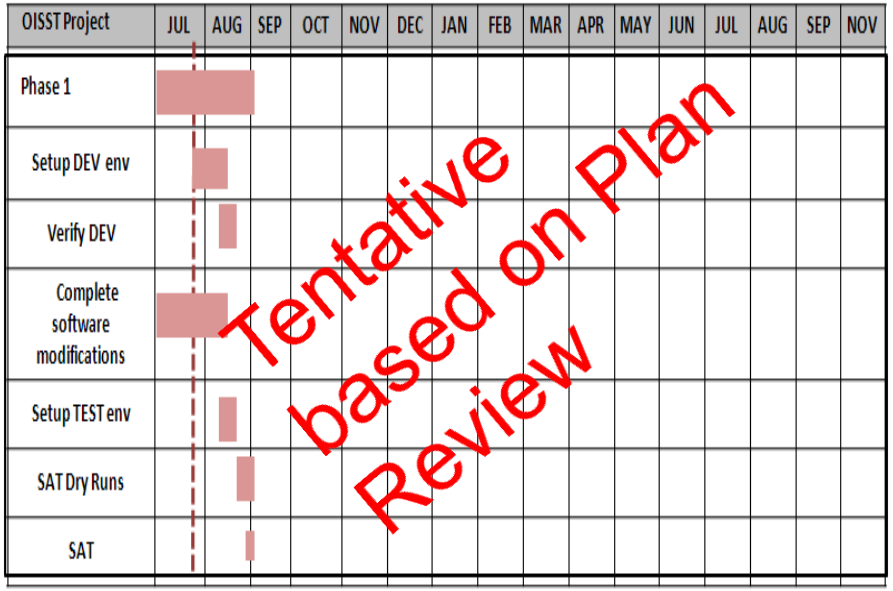
Team Lead:
Drew Saunders

### Weekly Report – Aug 8, 2014

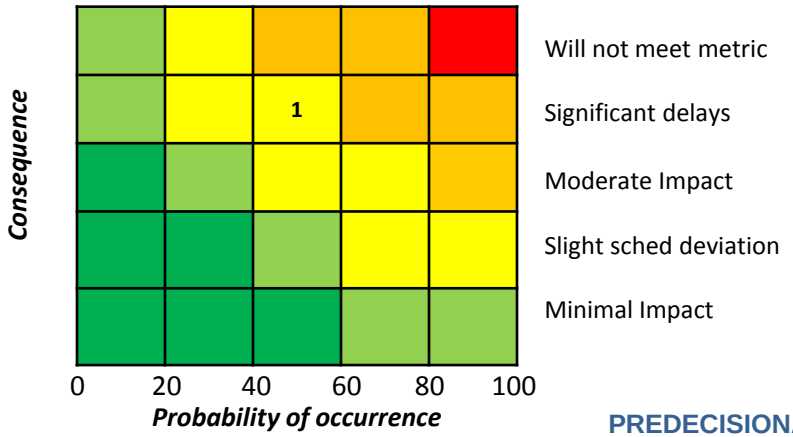
**1 ISST – Optimum Interpolated Sea Surface Temperature**

- **Performing dry runs for the System Acceptance Test (SAT).**
- **Created a complete golden data dataset. Existing set has gaps.**
- **Working with ITB for 3 tier environment, provided documentation.**
- Draft OISST Transition to Operations Project Plan is being reviewed (ITB and OISST team).
- Successfully completed 30 day parallel test.
- Comparing NCDC GTS with NCEP ship/buoy data for use. GCAD is resolving issues but requires new operational code.
- AVHRR data for the 15 day delay product is available from CLASS.
- Running test data and code on Rainband for parallel test.
- GSTWG discussing inputs and production of preliminary OISST.
- Created a SOP for operational OISST.
- Completed refactoring of each component.
- Conducted Technology Assessment Review.

Operations:




### Risk Matrix




### Risk and Mitigation

1 Time to progress through the three tier environment. ITB support is required.

2 Some operational users expect Near real-time access to the preliminary OISST. Need to

# CDR Program Office

## OISST Research to Operations Project

Team Lead:
Drew Saunders

## Project Information

**Objectives:**

**Phase 1 (current):**

- Complete software and script modifications.
- Successfully complete the OISST System Acceptance Test (SAT) of the rejuvenated OISST software and scripts, to ensure that the software rejuvenation is complete and the software is ready for operations.

**Phase 2:**

- Complete transition of the software to a Full Operational Capability (FOC).

**Timeline:**

**Phase 1:**

Aug 15, 2014 – Complete software and script mods
Aug 28, 2014 – Complete System Acceptance Test

**Phase 2:**

TBD

**User Community Summary:**

| Industry | Number of Users |
|---|---|
| U.S Universities | 33 |
| U.S. Government Researchers | 16 |
| U.S (other) | 8 |
| Modelers | 29 |
| Fisheries | 6 |
| Forecast | 4 |
| Foreign Government | 8 |
| Foreign Universities | 51 |
| Foreign Researchers | 85 |
| Foreign (other) | 34 |
| Unknown industry | 25 |
| NESDIS | JPSS, GOES-R evaluating for use |

# CDR Program Office

## OISST Research to Operations Project

Team Lead:
Drew Saunders

**User Community List:**

| Industry | emails |
|---|---|
| US Univ. | liyan@hawaii.edu, charbitz@uw.edu, yokwon@whoi.edu, bumjun.kil@eagles.usm.edu, ncantin@whoi.edu, chepurin@atmos.umd.edu, rui_li@asrc.cestm.albany.edu, jsnelso2@ncsu.edu, jdunworth@whoi.edu, jsh@ocean.tamu.edu, ehret@coas.oregonstate.edu, muirheadj@si.edu, gleb@iarc.uaf.edu, ting@ldeo.columbia.edu, yokwon@whoi.edu, pgaube@coas.oregonstate.edu, gertvd@stanford.edu, haibo@iri.columbia.edu, ytzhou0417@gmail.com, braunj@ucar.edu, xjin@whoi.edu, mrcastle@stanford.edu, mitchell@atmos.washington.edu, chen@atmos.colostate.edu, bukovsky@ucar.edu, emonier@mit.edu, heidinger@ssec.wisc.edu, asgebregio42@tntech.edu, jbooth@atmos.washington.edu, hyodae@hawaii.edu, stripath@purdue.edu, meiw@uci.edu, suzanne@apl.washington.edu |
| US Gov't Research | gang.liu@noaa.gov, robert.leaf@noaa.gov, Wayne.Robinson@nasa.gov, andrea.fassbender@noaa.gov, sigrid.a.salo@noaa.gov, john.manderson@noaa.gov, patrick.c.taylor@nasa.gov, don.murray@noaa.gov, jaddison@usgs.gov, ruben.van.hooidonk@noaa.gov, xuezhi.bai@noaa.gov, chenjie.huang@noaa.gov, paula.moreno@noaa.gov, andrew.sayer@nasa.gov, ken.knapp@noaa.gov, khalil.a.ahmad@noaa.gov |
| US Other | mynameisandriano@gmail.com, ffernandoy@gmail.com, jmccaa@3tiergroup.com, bailesheng@hotmail.com, awinchester@harrisbeach.com, bala@cola.iges.org, mark.russo@chk.com, dkolber@mbari.org, |
| Modelers | nperlin@coas.oregonstate.edu, yamakatu@riam.kyushu-u.ac.jp, muirheadj@si.edu, jpierini@criba.edu.ar, Ramesh.Vellore@dri.edu, sumeshgovind@gmail.com, bixq@ictp.trieste.it, dingfei98@sina.com, bibi_bf@yahoo.cn, rziegler@pcparadisevi.com, xsitaaz.chadee@sta.uwi.edu, wgleslie@mit.edu, ester.coal@gmail.com, rickyboy123@gmail.com, kovach@gmao.gsfc.nasa.gov, dwight.gledhill@noaa.gov, jdunn2@mix.wvu.edu, prabir@jamstec.go.jp, student@umd.edu, icerovecki@ucsd.edu, ahah@risoe.dtu.dk, nick.rayner@metoffice.gov.uk, yykim@ucsd.edu, issalele@ou.edu, xaviercouvelard@gmail.com, gertvd@stanford.edu, tmitsui@ccsr.u-tokyo.ac.jp, hendri_888@yahoo.com, frederic.dupont@dal.ca |
| Fisheries | lescudero@imarpe.gob.pe, luis.lampert@ifremer.fr, mamardon@udec.cl, hyelpamduwa@yahoo.com, roffers@bellsouth.net, Aquadad2@Yahoo.com |
| Forcast | xuyl@cma.gov.cn, cathy.smith@noaa.gov, sugeng_ho@yahoo.com, neh@ecmwf.int, |
| Foreign Gov't | eck@noc.ac.uk, xpan@gate.sinica.edu.tw, adnanshafiqrana@hotmail.com, djhuang@sio.org.cn, mvsmau@yahoo.com, kwhmet@yahoo.com, wenmin@cams.cma.gov.cn, spc_meteor@yahoo.com.br |
| Foreign Univ. | cadlentini@gmail.com, vivianev@utas.edu.au, bardossy@iws.uni-stuttgart.de, rocky.fuenzalida@gmail.com, lakshmi_irs@yahoo.co.in, yanase@aori.u-tokyo.ac.jp, jannak@uni-bremen.de, 1boum004@mail.tokai-u.jp, kosuke-m@eps.s.u-tokyo.ac.jp, a.roessler@uni-bremen.de, perfecthuang@gmail.com, tnagai@kaiyodai.ac.jp, victor_soliman@yahoo.com, j.k.sweeney@student.reading.ac.uk, bobier.mn@gmail.com, fsantos@ujaen.es, akamefan@qq.com, adc401@uow.edu.au, fdaryabor@gmail.com, sugimoto@pol.gp.tohoku.ac.jp, bibioo@ouc.edu.cn, takeyoshi@gmail.com, anna.olafsdottir@mi.mun.ca, jmm@dfuls.cl, koocharley@yahoo.com, da_mujica@yahoo.es, hamzavarikoden@gmail.com, |

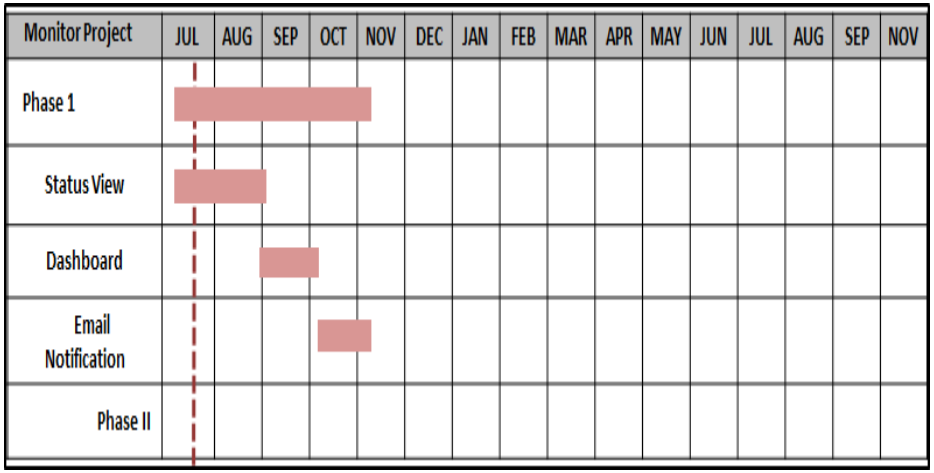
# CDR Program Office
# Pipeline Monitoring Tool

Team Lead:
Linda Copley

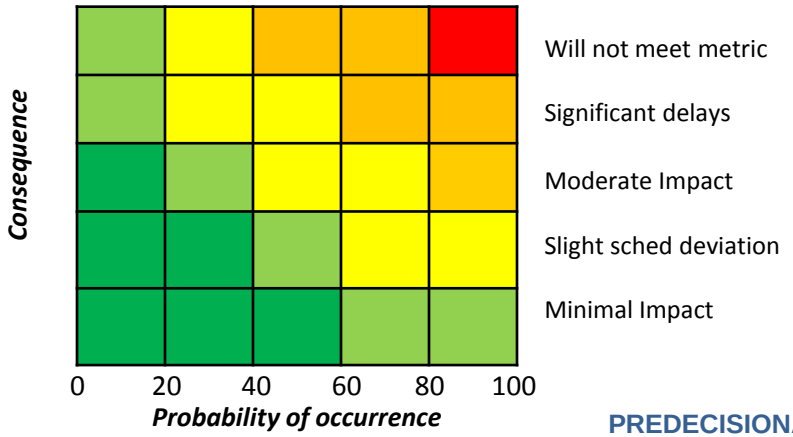
## Weekly Report – August 8, 2014

**1 Operations Monitoring Tool development**

- **Working on database design.**
- Defined requirements for Phase 1 of the project.
- Phase 1 implements basic functionality .
- Additional datasets can be added in later phases.
- Updated the monitoring project plan.
- Monitoring of operational ingest.




## Risk Matrix




## Risk and Mitigation

# CDR Program Office
## Pipeline Monitoring Tool

Team Lead:
Linda Copley

## Project Information

**Objectives:**

**Phase 1 (current):**

- Provide an interface that reports success and failure for ingest, file processing, and submission to archive of data handled by iRODS in the Operations environment.
- Provide an interface that reports metrics based on the number and size of files handled in the Operations environment.
- Provide email notifications based on status conditions.

**Timeline:**

**Phase 1:**

Sep 15, 2014 – Complete status view
Oct 15, 2014 – Complete Dashboard
Nov 15, 2014 – Complete email notification

**User Community Summary:**

Operations Branch, operators
NCDC Managers
CDR Transition Managers

# CDR Program Office
## Reprocessing VIIRS SDRs

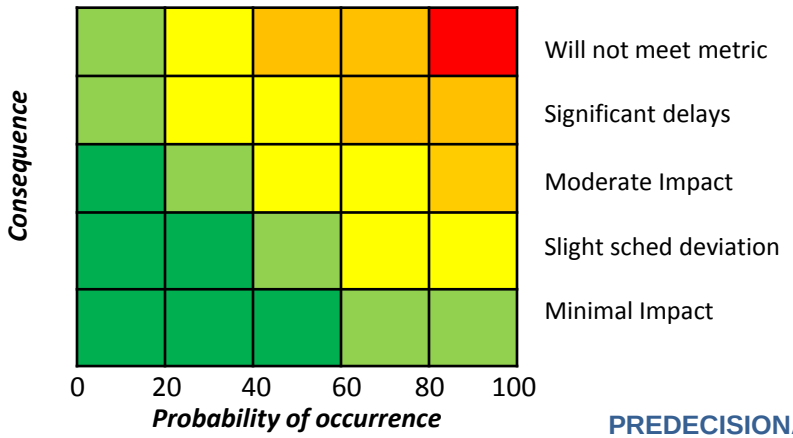
Team Lead:
Jim Biard

### Weekly Report – August 8, 2014

**1 Operations Monitoring Tool development**

- **Reviewing draft white paper to identify issues and establish scope.**
- **Discussed and will draft a Project Plan to scope this project.**
- Have identified parts of the algorithm that need to 'conditioned' during runtime and will affect reprocessing estimates.
- Discussed scope and goals of the project with CDRP scientist.

### Risk Matrix




### Risk and Mitigation



PREDECISIONAL DRAFT INFORMATION

= On-track = Potential management action required = Management attention required

# CDR Program Office

## Reprocessing VIIRS SDRs

Team Lead:
Jim Biard

## Project Information

**Objectives:**

**Phase 1 (current):**

- Complete project plan for pilot Risk Reduction Project.

**Timeline:**

**Phase 1:**

TBD

**User Community Summary:**

TBD

# CDR Program Office

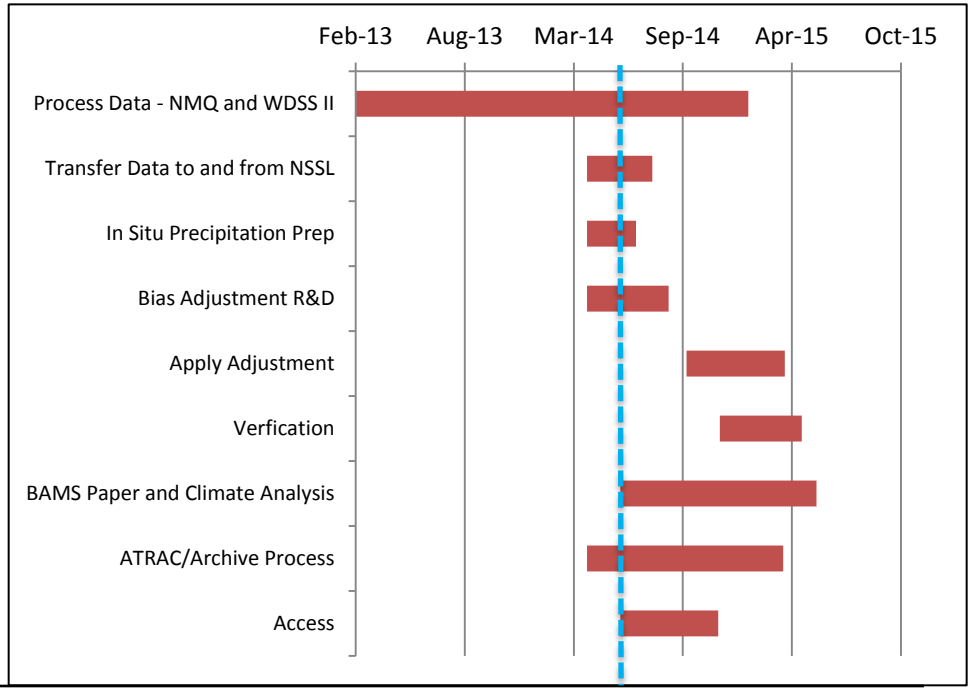
## NOAA NEXRAD Reanalysis

Project Manager:
B. Nelson

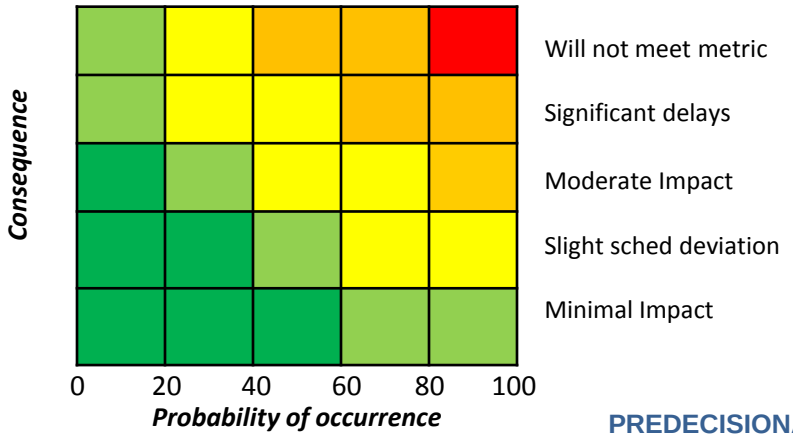
### Weekly Report

**NNR – NOAA NEXRAD Reanalysis**

- **Obtained COOP, HADS, and CRN data and process gauge –radar pairs for analysis.**
- **Testing phase of IDW scheme for multi-sensor estimation.**
- **Obtained all data to fill in full period of record (2000-2011) for radar only product and severe weather data from NSSL**
- **Loaded data to send back to NSSL**
- Present Project Overview to Stewardship Council
- Process 2007 (Severe Weather and Hydro)
- Obtain 2001 data from NCDC archive
- Develop Bias Adjustment Plan
- Transfer GCHN-Daily, and HADS data to NSSL
- Present at Weather Radar Symposium
- Process 2006 2007 2009 20011 data




### Risk Matrix




### Risk and Mitigation

No Risk at this time

PREDECISIONAL DRAFT INFORMATION

= On-track = Potential management action required = Management attention required

# CDR Program Office
## ISCCP Processing @ NCDC

Project Manager:
A. Young/K. Knapp

### Weekly Status Update

- Ordering replacement data from EUMETSAT
- Sent beta data to users for feedback.
- Preparing ancillary calibration data for processing.
- Working on ISCCP Website for NCDC
- Preparing data for Beta users (preliminary output)
- Prepared space and scripts for ISCCP processing on CICS server.
- Received pre-processing software to QC input files (GEO/B1 & LEO/AVHRR)

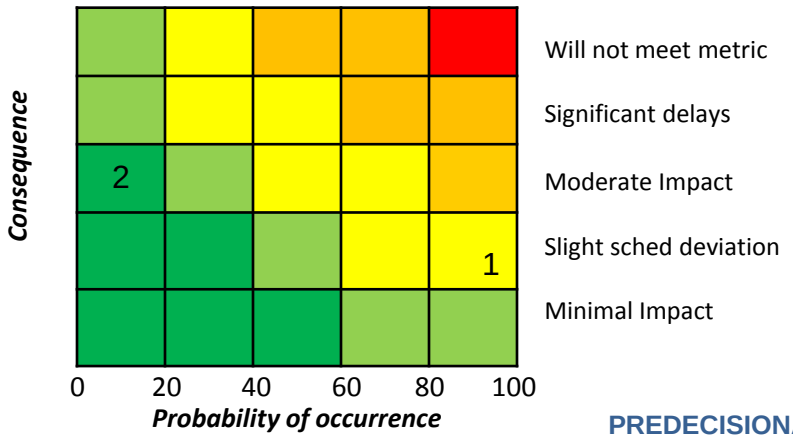
### Objectives

Produce ISCCP cloud products at NCDC following IOC R2O procedures. Plan for routine updates to follow.

### Schedule

| | |
|---|---|
| • Start Date | 1983? 2003? 2013? |
| • Begin processing | September 2014 |
| • End processing | December 2014 |
| • QC & Analysis | Jan-Feb 2015 |
| • Archive | March 2015 |
| • Routine updates start | June 2015 |

### Risk Matrix




### Risk and Mitigation

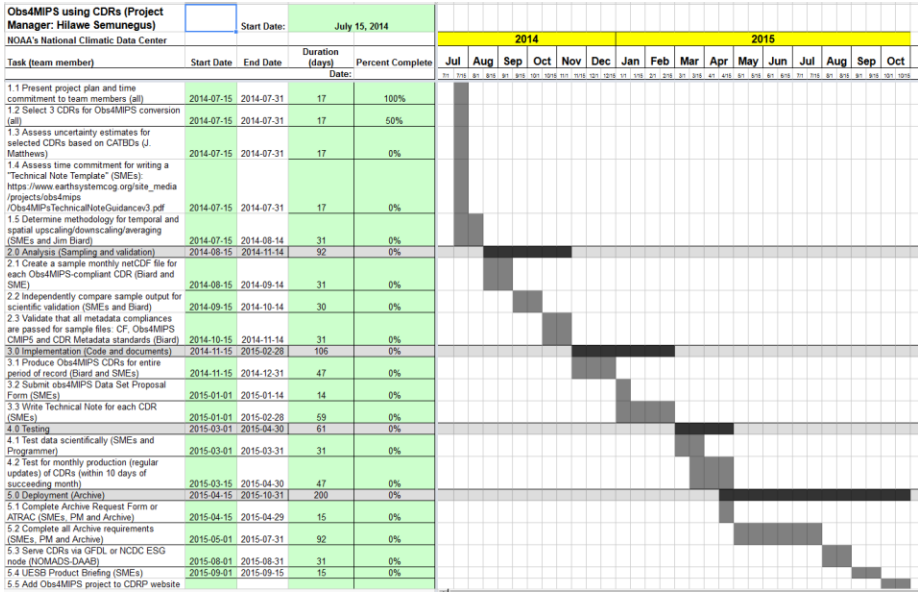
1. Delivery of software late and other delays.
2. CICS server space

# CDR Program Office
# Obs4MIPS

Project Manager:
H. Semunegus

## Weekly Status Update

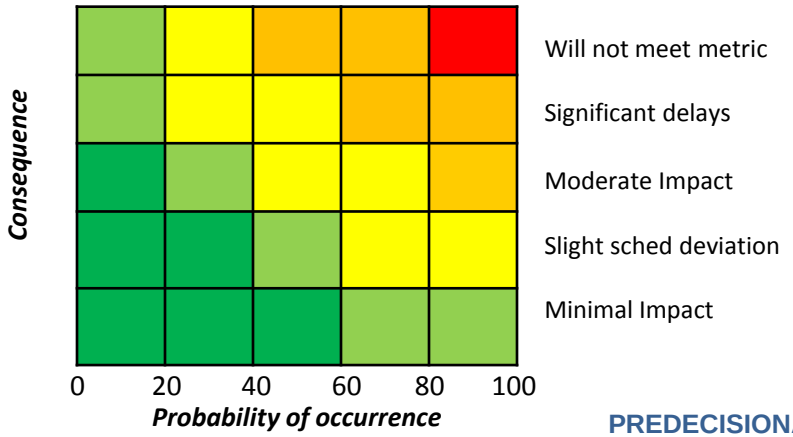
- Test data was converted to Obs4MIPS format.
- Planning meeting completed and schedule revised.
- Initial datasets selected for Obs4MIPS: OISST and OLR
- Lots of emails and investigations ongoing.
- Many CDRs can't work in Obs4MIPS: all FCDRs and all Mean Layer Temperatures aren't fit for this purpose.
- Kickoff meeting held 7/18
- Initial plans developed.



| Obs4MIPS using CDRs (Project Manager: Hilawe Semunegus) | | Start Date: | July 15, 2014 | |
|---|---|---|---|---|
| NOAA's National Climatic Data Center | | | | |
| Task (team member) | Start Date | End Date | Duration (days) | Percent Complete |
| | | | Date: | |
| 1.1 Present project plan and time commitment to team members (all) | 2014-07-15 | 2014-07-31 | 17 | 100% |
| 1.2 Select 3 CDRs for Obs4MIPS conversion (all) | 2014-07-15 | 2014-07-31 | 17 | 50% |
| 1.3 Assess uncertainty estimates for selected CDRs based on CATBDs (J. Matthews) | 2014-07-15 | 2014-07-31 | 17 | 0% |
| 1.4 Assess time commitment for writing a "Technical Note Template" (SMEs): https://www.earthsystemcog.org/site_media/projects/obs4mips/Obs4MIPsTechnicalNoteGuidancev3.pdf | 2014-07-15 | 2014-07-31 | 17 | 0% |
| 1.5 Determine methodology for temporal and spatial upscaling/downscaling/averaging (SMEs and Jim Biard) | 2014-07-15 | 2014-08-14 | 31 | 0% |
| 2.0 Analysis (Sampling and validation) | 2014-08-15 | 2014-11-14 | 92 | 0% |
| 2.1 Create a sample monthly netCDF file for each Obs4MIPS-compliant CDR (Biard and SME) | 2014-08-15 | 2014-09-14 | 31 | 0% |
| 2.2 Independently compare sample output for scientific validation (SMEs and Biard) | 2014-09-15 | 2014-10-14 | 30 | 0% |
| 2.3 Validate that all metadata compliances are passed for sample files: CF, Obs4MIPS CMIP5 and CDR Metadata standards (Biard) | 2014-10-15 | 2014-11-14 | 31 | 0% |
| 3.0 Implementation (Code and documents) | 2014-11-15 | 2015-02-28 | 106 | 0% |
| 3.1 Produce Obs4MIPS CDRs for entire period of record (Biard and SMEs) | 2014-11-15 | 2014-12-31 | 47 | 0% |
| 3.2 Submit obs4MIPS Data Set Proposal Form (SMEs) | 2015-01-01 | 2015-01-14 | 14 | 0% |
| 3.3 Write Technical Note for each CDR (SMEs) | 2015-01-01 | 2015-02-28 | 59 | 0% |
| 4.0 Testing | 2015-03-01 | 2015-04-30 | 61 | 0% |
| 4.1 Test data scientifically (SMEs and Programmer) | 2015-03-01 | 2015-03-31 | 31 | 0% |
| 4.2 Test for monthly production (regular updates) of CDRs (within 10 days of succeeding month) | 2015-03-15 | 2015-04-30 | 47 | 0% |
| 5.0 Deployment (Archive) | 2015-04-15 | 2015-10-31 | 200 | 0% |
| 5.1 Complete Archive Request Form or ATRAC (SMEs, PM and Archive) | 2015-04-15 | 2015-04-29 | 15 | 0% |
| 5.2 Complete all Archive requirements (SMEs, PM and Archive) | 2015-05-01 | 2015-07-31 | 92 | 0% |
| 5.3 Serve CDRs via GFDL or NCDC ESG node (NOMADS-DAAB) | 2015-08-01 | 2015-08-31 | 31 | 0% |
| 5.4 UESB Product Briefing (SMEs) | 2015-09-01 | 2015-09-15 | 15 | 0% |
| 5.5 Add Obs4MIPS project to CDRP website | | | | |



## Risk Matrix




## Risk and Mitigation

TBD



PREDECISIONAL DRAFT INFORMATION

= On-track = Potential management action required = Management attention required

# CDR Program Office

## UW HIRS Processing @ NCDC

Project Manager:
A. Young

### Weekly Status Update

- Waiting for final code delivery from Wisconsin.
- Preparing plan for processing on CICS server.
- Working on finding space for the 10TB of input data (pixel level cloud data).

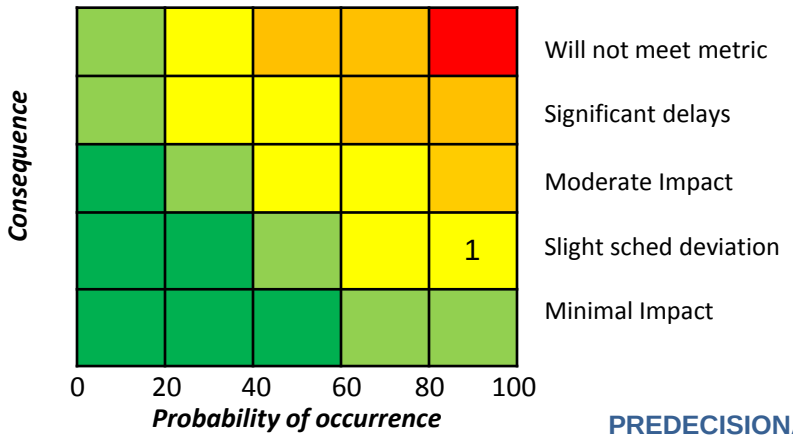
### Objectives

Produce global total precipitable water and cloud top pressure estimates from HIRS data using the UW algorithm (P. Menzel).

### Schedule

- Start Date TBD
- End Date TBD

### Risk Matrix




### Risk and Mitigation

1. Programmer was assigned to another task. Impact: Schedule may slip.

# CDR Program Office

## Albedo of the Americas

Project Manager:
J. Matthews

### Weekly Status Update

- No change.
- Loaned 42 TB of disk space allocation to ISCCP Project

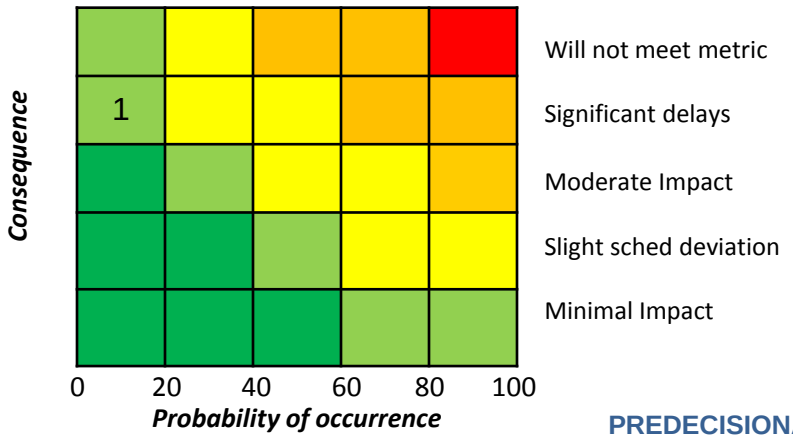
### Objectives

Produce a daily land surface albedo product over North and South America from GOES-GVAR observations for 1995-2014.

### Schedule

| | |
|---|---|
| • Start Date | January 2015 |
| • End Date | June 2016 |

### Risk Matrix




### Risk and Mitigation

1. Loaned disk space is not returned
   * Could cause delays. Unlikely since more disk space is planned.